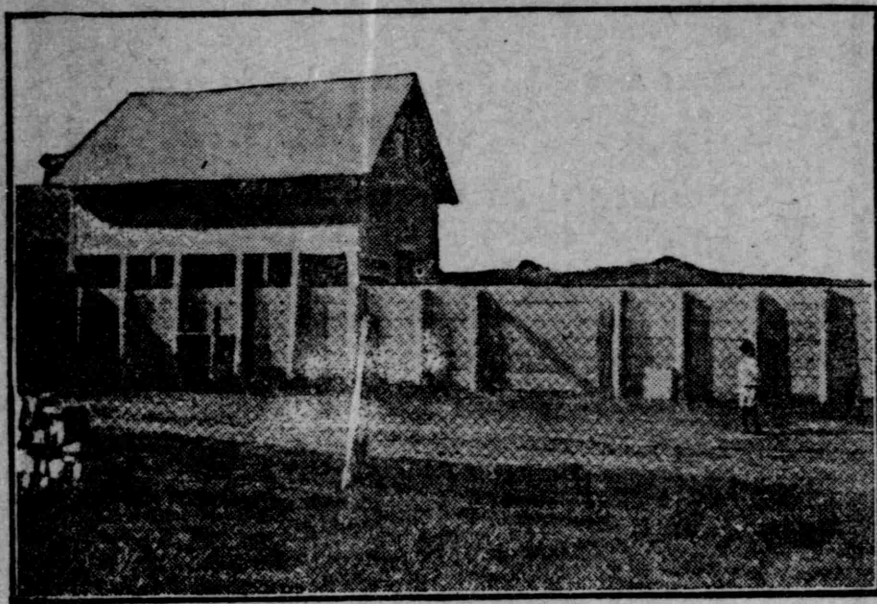


GOOD PEN IN WHICH TO KEEP THE BULL

Arrangement Which Obviates Necessity of Going Into the Stall of the Animal.



The Bull Pen.

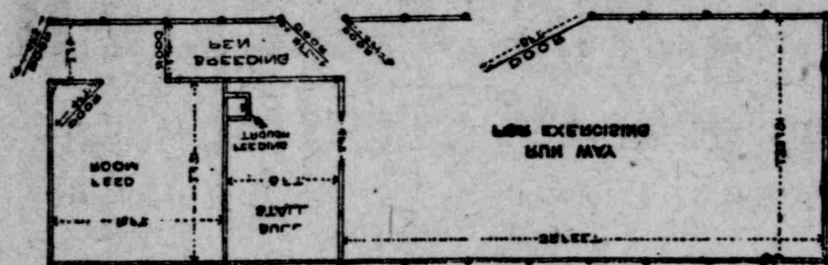
In the illustrations accompanying this article we show the elevation and ground plan of the building and yard in which the herd bull on the Hoard's Dairyman farm is kept.

It does not take much explaining to indicate how the animal is handled and fed in such a place.

Everything is so arranged that it is

same manner. The door which leads when opened and this is done by a pulley and a rope. The pulley is attached to the peak of the barn above the doorway and the rope attached to the door extends to it and to the feed room where the door may be opened or closed.

The door between the breeding pen and runway is always kept closed, ex-



Ground Plan of the Bull Pen.

cept when it is opened to let the bull into this place. The cow is led in before this is done and the man steps out before letting the bull enter. The hay is stored above the feed room and bull stall.

The Quality of Stink Grass



The illustration herewith shown is of Stink Grass, scientifically known as *eragrostis multiflora*. It is sometimes called candy grass. It is a native of the old world, but has now become naturalized in many parts of the United States. The grass is coarse and weedy, and has such a disagreeable odor when fresh that animals do not relish it. On drying, the grass

loses this odor and the hay is more palatable. As it is an annual, it is easily killed out, if it is not wanted. The air-dried plant carries about 13 per cent. protein, and has a nitrogen content of about 2.15. This should make a valuable feed, but it is not largely used at the present time.

MAGNITUDE OF DAIRY INDUSTRY

The clean-milk problem is a vital one, affecting the production and consumption of 9,000,000,000 gallons in the United States per year, being an annual supply of over 100 gallons for every man, woman and child in the country. This amount affords 1.1 quarts a day for every individual, which includes the milk used in making butter and cheese. The actual amount of whole milk consumed each day averages about .65 of a pint for every individual. The value of this product for a year at retail is the startling sum of \$2,500,000,000. This

is about one-fiftieth of the entire wealth of the nation, five times the wholesale value of last year's wheat crop, nearly twice the value of the corn crop, and over one-third of the entire value of farm products for 1907, which is estimated at \$7,400,000,000. The wholesale value of dairy products last year was estimated at \$800,000,000, which would allow a price of less than ten cents a gallon for milk at the dairy. An average retail price of seven cents a quart was assumed, which is probably a little below the average price.

The best ration for laying hens, according to experiments, is about one to four, or one part of protein to four parts of carbonaceous foods.

ROAD AND FARM IMPROVEMENT

DIRT ROADS.

How They Are Kept in Good Condition in Sections of Missouri.

There are three tools that are being used in Missouri in keeping the dirt roads in good condition, the grader, the drag and the harrow, writes a correspondent of the Farmers' Voice. The grader, costing from \$200 to \$500, is used in rolling up the roads. This is done, or, at least, should be done, in the spring of the year. If the roads are graded in the fall they get terribly cut up by the travel after the rains in the late fall and sometimes become almost impassable. To say the least, they are miserably rough. When graded in the spring the roads get bad enough in the winter and spring, and it is only of late years that farmers have learned the use of the drag and harrow in putting them in good condition again.

The road drag is easily constructed by means of two timbers of split logs from eight to ten feet in length and about the size of heavy fence posts. They may be fastened together with oak cross pieces or by round spokes extending from the holes in one piece to those in the other. Good chains can be fastened to the pieces to which the double tree can be attached. If the drag is extra heavy, two teams may be used by hitching one at each end. When dragging the road one team should be kept a little ahead of the other, so as to pull the dirt toward the middle of the road. It is a good idea to have a sharp cutting blade of steel on the underside of the front timber. If this extends about half an inch below the edge of the timber and slants forward it will help wonderfully in cutting off the rough points in the road.

The drag, though simple, is a great invention. It is a power for leveling the roads in winter just after a dry freeze or in the early spring when the roads begin to dry. By running the drag over the road, ruts and horse tracks will be easily filled. If they contain water, it will run out and away, then the roads will soon be in good condition.

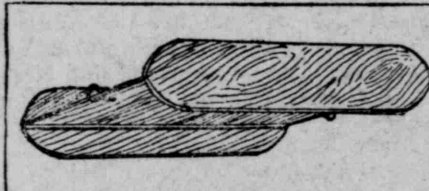
The common field harrow, while not so good as the drag, is being used frequently for leveling roads. Best results are obtained by using the harrow when the roads are rough, but dry. It acts as a leveler, but not as a grader, by raking off the clods and bumps, pulverizing them and filling the depressions.

The neighbors in a community, with the use of the drag and harrow, have no trouble keeping the roads about their farms in very good condition during most of the year. Of course there are times in rainy seasons when the roads must be let alone.

REVERSIBLE SLED.

It is Easy to Load, and Easy from Which to Dump Load.

Here is a sled that will work either side up, and from either end. It is handy for hauling stones or other heavy material, as it can be over-



Self-Dumping Sled.

turned and the load left where desired. If necessary, it can be drawn from either end, and will save a lot of extra lifting in unloading the material.

DO HAULING NOW.

Get Such Work Out of the Way Before Ground Gets in Bad Shape.

With the old plan of managing the farm there was always much hauling to do in the winter and in all kinds of weather. I have learned one thing about hauling, says a writer in Farm and Home, and that is it pays to do it when the ground is solid.

There is much feeding to be done during the winter. Generally the hay is stacked in the field at harvest time and hauled to the feed racks as needed. I have learned to haul and stack in the rack at harvest time. This takes a little longer, but saves time in the end and extra hauling.

I do my hauling, as far as possible, when I have firm footing for the horses. Trying to haul loads when the ground is soft has made more balky horses than any other cause. I believe, at any rate, this is a good time to bring out the balk in them if there is any. If you want to save horses, do the hauling when they can do it easiest and it will be easiest for you at the same time.

Easily Made Vinegar.

We make 10 to 12 gallons fine apple vinegar every year. As soon as apples come, we take the parings and put them in a six-gallon stone jar and tamp them with a potato masher till they are pretty well bruised, then pour water over them till covered. We continue to put the parings in till they have been in a week or more, then we strain out the parings and pour the elder into a keg and repeat the operation till one keg is full. We then lay an old piece of cotton cloth over the bung and let nature do the rest. In two months we have a keg of the finest kind of vinegar.

HAD YOU THOUGHT

Of Going to the Hardware Store ? to do your Christmas Shopping ?

Choosing here is made easy by the most extensive line to select from.

Rochester Ware.

That beautiful Nickel Plated Ware that looks like silver, wears like silver and yet is not so expensive.

Chafing Dishes, Serving Dishes, Tea Kettles, Syrup Pitchers, Coffee and Tea Pots, Cream, Sugar and Spoon Holders and a number of other useful articles in this ware that makes beautiful and useful gifts.

Pocket and Table Cutlery.

For the Father, Brother, Son or Friend we have and elegant line of Pocket Knives with individual cases that makes choosing easy. Also Robeson's "Shur-Edge" and "Keen-Kutter" Razors.

Then for the home we have Table Cutlery, Spoons and Carvers in great variety. For the Mechanic we can show a great variety of Tools to suit all classes of work.

"New Method" GAS RANGES.

"Foster's Winner" and "Reliable" COAL RANGES.

Come here to do your shopping. We can make the puzzling question of something to give an easy matter.

Grubbs & Benton, On the Corner.

WINCHESTER MAN LOSES VERY LITTLE

G. W. Moore Had Pocket Picked Recently at Lexington.

Mr. G. W. Moore, of No. 12-Douglas street, this city, was one of the three men who were touched by a pickpocket at the Southern depot in Lexington last Monday night. Fortunately Mr. Moore did not have any great amount of money on his person at the time for if he did the chances are that he would be minus it now.

All that he lost in the deal was a pocket book containing an expense account book and some papers that are absolutely worthless to any one except himself. Mr. Moore said that after he had missed his book he then remembered distinctly the man who got it and the time he went in his pockets. Mr. Moore says the man who he thinks is the one, would never be taken for a pickpocket as he said he looked more like one of the sons of the tall and uncut that he did a pickpocket.

The other two men who were touched were relieved of about \$1,500.

THANKS WINCHESTER BOARD OF EDUCATION.

State Superintendent Expresses Appreciation of Services of Prof. R. M. Shipp.

The president of the Board of Education, has received the following letter from State Superintendent Grabbe, which speaks for itself:

December 12, 1908.
President of the Board of Education, Winchester, Kentucky:

My Dear Sir:—I desire to write you and express my thanks for your courtesy in allowing Superintendent R. M. Shipp a leave of absence from his duties for one week during the whirlwind campaign for better education in Kentucky. Superintendent Shipp did splendid work and I have the most flattering reports from all the counties which he visited. I feel that this word of thanks is due the Board of Education and your city.

Very truly yours,
J. G. GRABBE,
Superintendent.

Every man's troubles are the worst—from his point of view.



CHRISTMAS THOUGHTS are usually generous. If you are thinking of some one in poor circumstances let us suggest that you order us to deliver at that one's door a ton of our first class coal. Let others supply the turkey and good things to eat. Show that you are practical in your giving by having us send the coal with which to cook them. Feed your hens purina and get eggs.

The WINN-MARTIN COAL & SUPPLY CO. INCORPORATED.



A CHRISTMAS SURPRISE

It will be to you when you don a suit that has been cleaned at MAYER BROS. It will be like a Xmas gift of a new suit of clothing, and will do the same service the rest of the Winter. It is economy to keep your clothing cleaned and pressed at

the

Cincinnati Tailors.

Phone 528. Next to Auditorium.

Death Penalty Is State Murder

By COUNT LEO TOLSTOY.

The death penalty is one of those terribly inhuman acts against which I find myself unable to protest with sufficient strength, or with sufficiently far-reaching influence. I can quite understand that in a moment of irritation, of anger, of vengeance, or of forgetfulness of one's human character, one may kill another, either in defense of those dear to one or in one's own defense. A man may, under the influence of patriotic intoxication, even participate in the common murder of war. That men in the full possession of their human faculties, however, in cold blood, admit the necessity

of murdering a fellow-creature or force other men to commit an act so contrary to human nature—that I have never understood, even in 1866, when, as a soldier, my life was the narrow one of the egotist. The catechisms tell us that it is not a crime to kill a person, when the depriving of such a person of his life is an act of the state or an act of justice. In legal and scientific works all the arts of sophistry are resorted to, in order to prove that killing, in the interests of the state, is a necessary process in the advance of civilization. Haeckel, for example, declares that the death penalty is not only a just chastisement for criminals, but a benefit for the better part of the human race. . . . It is my opinion that the mechanism of the state, inconceivable without murder, is incompatible with Christianity.

